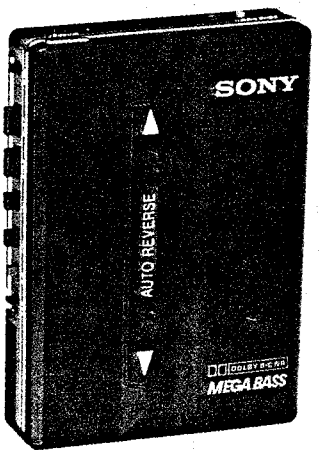
WM-B603

SERVICE MANUAL

AEP Model



MEGA BASS

SPECIFICATION

Power requirements 1.5 V DC Battery R6 (AA) × 1
NC-5WM rechargeable battery
External DC 1.5 V power sources

Battery life
(Approximate hours)

Sony Alkaline AM3 (N)	7 hrs.
Rechargeable NC-5WM	2 hrs.

Accessories supplied See "Supplied accessories"

Optional acccessories* Rechargeable battery NC-5WM
Battery charger BC-7K
AC power adaptor AC-D1M
Car battery cord DCC-70
Battery case EBP-500B

*Your dealer may not handle these optional accessories. Please ask the dealer for detailed information.

Design and specifications subject to change without notice.

Note
This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism	WM-150
Tape Transport Mechanism Type	MF-WMA602-01

Notes on battery

- Remove the battery when you will not use the unit for a long time to prevent damage from battery leakage and corrosion.
- The internal battery is disconnected when you plug a cord into DC IN 1.5 V.
- When the sound becomes unstable, try a new battery.

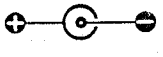
Handling the rechargeable battery

- Recharge when the sound becomes noisy or distorted.
- Keep the battery away from fire.
- Do not let the battery terminals touch anything metal.

External power sources

The following external power sources can be connected through the DC IN 1.5 V jack.
- House current using an AC-D1M AC power adaptor
- 12 V car battery using a DCC-70 car battery cord
- Two R20 (size D) batteries using an EBP-500B battery ca

The illustration shows the polarity of DC IN 1.5 V jack.
Use only a power cord having the same polarity.



MICROFILM

CASSETTE PLAYER

SONY®

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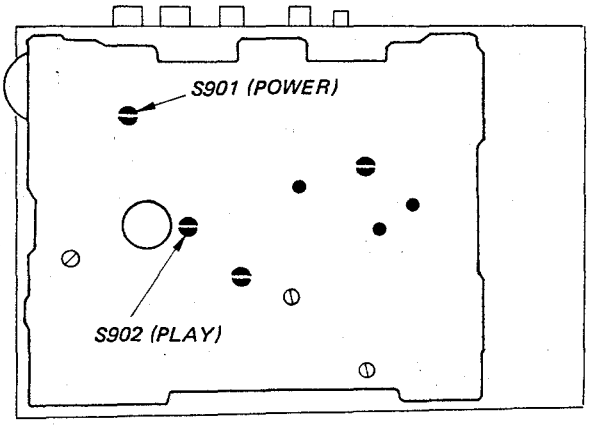
SERVICING NOTES

When you are movement check states of removed the audio board, press the PLAY (▶) button, slide on the S901 (POWER) and S902 (PLAY) switches.

AUDIO BOARD — Conductor side —



- Short the jumper terminal disconnected S901 and S902.
- Be sure to remove the solder jumpers at the S901 and S902 locations after repair.

Flexible Circuit Board Repairing

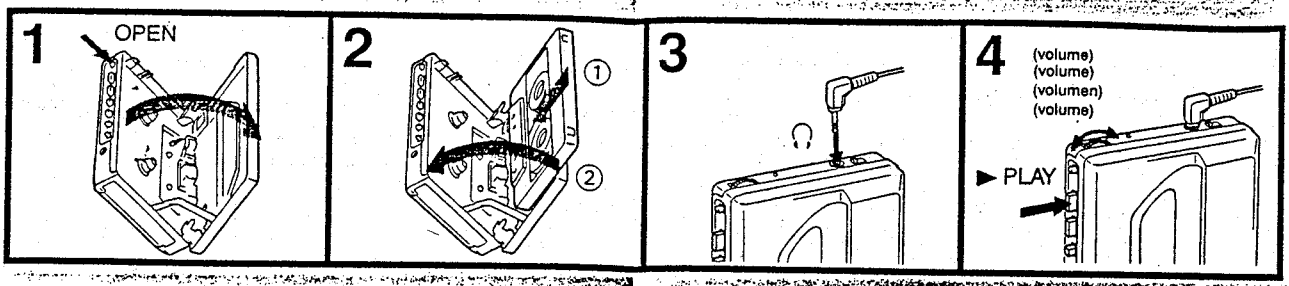
- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (Within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

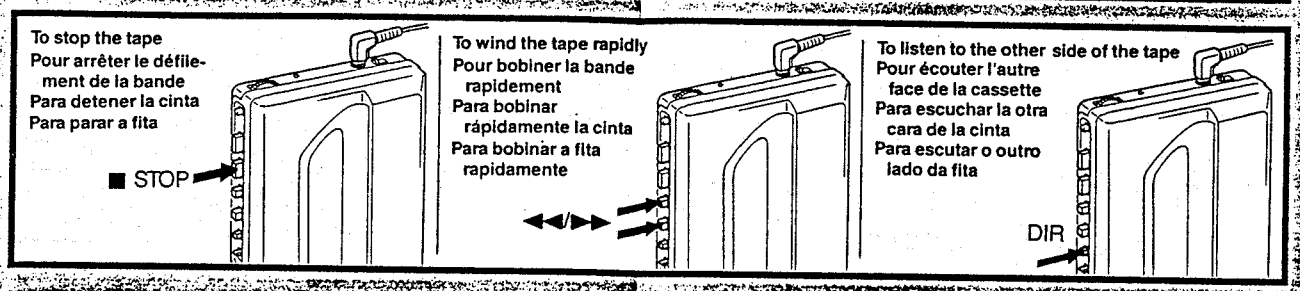
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SECTION 1
GENERAL

Tape Playback
Lecture d'une cassette
Reproducción de cintas
Leitura de cassetes




To stop the tape
Pour arrêter le défilement de la bande
Para detener la cinta
Para parar a fita
■ STOP
To wind the tape rapidly
Pour bobiner la bande rapidement
Para bobinar rápidamente la cinta
Para bobinar a fita rapidamente
◀◀/▶▶
To listen to the other side of the tape
Pour écouter l'autre face de la cassette
Para escuchar la otra cara de la cinta
Para escutar o outro lado da fita
DIR

MEGA BASS

Listening to powerful and heavy sound
Pour entendre un son puissant et renforcé
Audición del sonido potente y profundo
Obtenção de graves fortes e potentes

Set MEGA BASS to the desired position Bass is boosted in the order of NORM, MID and MAX. Régler MEGA BASS sur la position désirée. Les graves sont accentués dans l'ordre NORM, MID et MAX. Ajuste MEGA BASS a su gusto. Los graves se reforzarán en el orden de NORM, MID y MAX. Ajuste MEGA BASS na posição desejada. Os sons graves são aumentados na ordem de NORM, MID, e MAX.	

MODE

On playback operation
Opérations de lecture
Sobre la operación de reproducción
Notas sobre a leitura

Playing back both sides of the cassette once When the playback starts from the reverse side of the cassette, the unit will be shut off at the end of that side. **Lecture des deux faces en une fois.** Lorsque la lecture commence à partir de la face envers de la cassette, l'appareil s'arrête à la fin de cette face. **Reproducción única de ambas caras** Si la reproducción se inicia desde la cara posterior, la reproducción se detendrá al final de dicha cara. **Leitura de ambos lados da cassete uma vez.** Quando a leitura começa a partir do lado reverso da cassete, o aparelho é desligado no fim deste mesmo lado.	
Playing back both sides of the cassette repeatedly **Lecture des deux faces de la cassette de façon répétée** **Reproducción repetida de ambas caras** **Leitura de ambos os lados da cassete, de forma contínua.**	

DOLBY NR

Getting the best performance from your tape
Pour obtenir la meilleure performance possible de vos cassettes
Para obtener el máximo rendimiento de la cinta
Para obter o melhor desempenho da sua fita
For WM-A602, WM-B602
Pour le WM-A602 et le WM-B602
Para el WM-A602 y el WM-B602
Para WM-A602, WM-B602

For Dolby NR-processed tape Pour les bandes enregistrées avec Dolby NR Para las cintas grabadas con el sistema Dolby NR Para as fitas gravadas com Dolby NR	

For WM-B603
Pour le WM-B603
Para el WM-B603
Apenas para WM-B603

For Dolby B NR-processed tapes Pour les bandes enregistrées avec Dolby B NR Para las cintas grabadas con el sistema Dolby NR tipo B Para as fitas gravadas com Dolby NR B	
For Dolby C NR-processed tapes Pour les bandes enregistrées avec Dolby C NR Para las cintas grabadas con el sistema Dolby NR tipo C Para as fitas gravadas com Dolby NR C	

TAPE

For nomal (TYPE I) tapes Pour les bandes normales (TYPE I) Para las cintas normales (TYPE I) Para fitas normais (TYPE I)	
For CrO_2 (TYPE II) or metal (TYPE IV) tapes Pour les bandes au chrome (TYPE II) ou au métal (TYPE IV) Para las cintas de CrO_2 (TYPE II) o metálicas (TYPE IV) Para fitas CrO_2 (TYPE II) ou metal (TYPE IV)	

SECTION 2
ADJUSTMENTS

2-1. MECHANICAL MEASUREMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

   playback head — pinch roller
   capstan — rubber belts

2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the reted power supply voltage (1.3V) unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	20-38g·cm (0.27-0.52oz·inch)
FWD Back Tension		0.5-4g·cm (0.007-0.05oz·inch)
REV	CQ-102RB	20-38g·cm (0.27-0.52oz·inch)
REV Back Tension		0.5-3.5g·cm (0.007-0.05oz·inch)
FF, REW	CQ-201B	more than 60 g·cm (more than 0.83 oz·inch)

Tape Tension Measurement

Mode	Torque meter	Meter reading
FWD	CQ-403A	more than 40 g·cm (more than 0.54 oz·inch)
REV	CQ-403R	

2-2. ELECTRICAL ADJUSTMENTS

Playback Head Azimuth Check

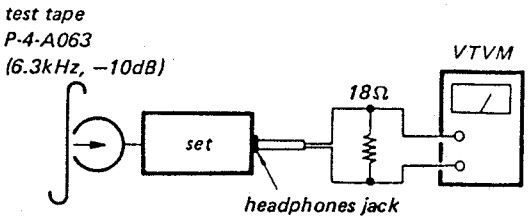
- **Perform this check both in FWD and REV mode.**

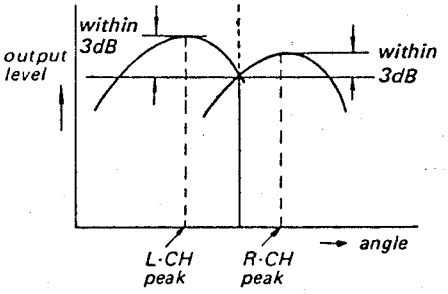
Note: This set is not featured the head azimuth adjustment. When replacing the head, check the both L-ch and R-ch output levels and also those phases.

Procedure:

1. Level Check

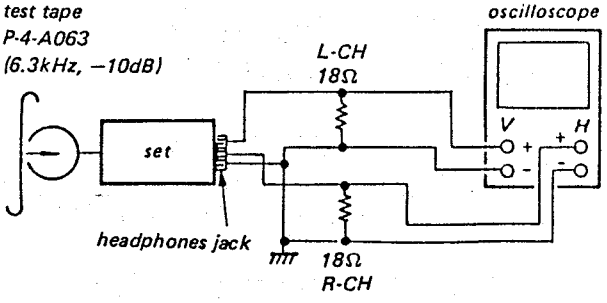
   Mode: playback

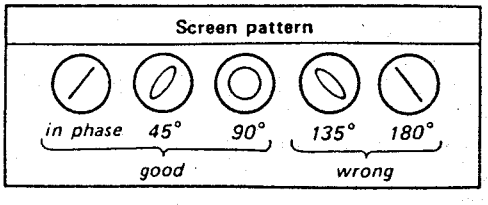




2. Phase Check

   Mode: playback

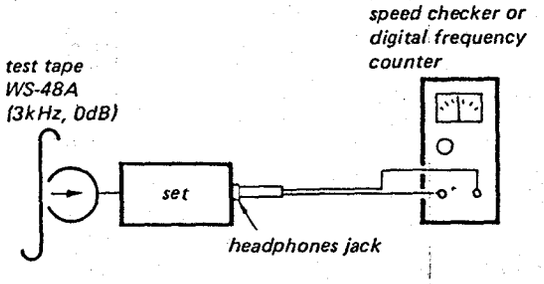




Tape Speed Adjustment

Procedure:

Mode: playback



Adjustment value :

speed checker	digital frequency counter
±1.5%	2,955 – 3,045 Hz

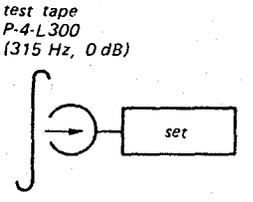
Frequency difference between the beginning and the end of the tape should be within ± 2.5% (±75Hz).

Playback Level Adjustment

DOLBY NR switch.	OFF
VOL knob	minimum
MEGA BASS	NORM
TAPE	NORM

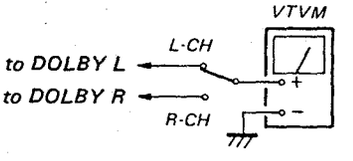
Procedure:

1. Playback mode.



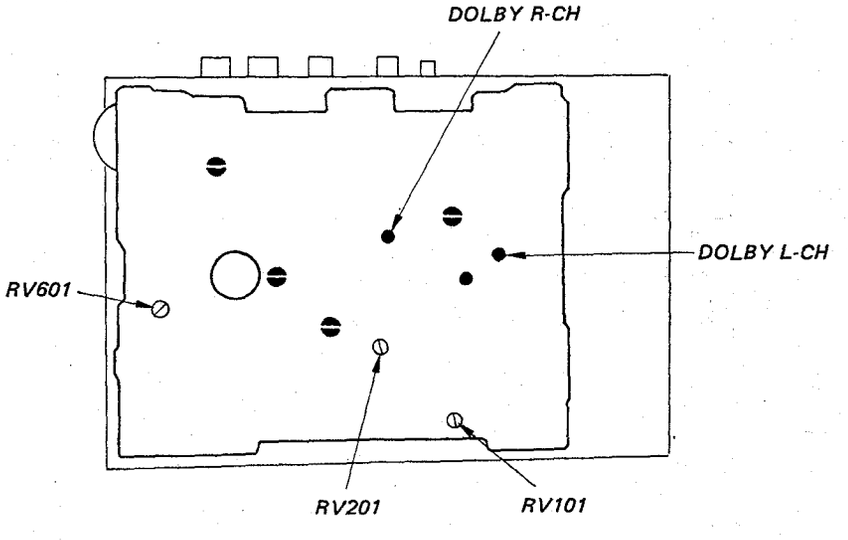
2. Adjust RV101(L-CH), RV201(R-CH) so that the VTVM reading is –30.5±1.0dB(0.016–0.021V).

Adjustment Location: AUDIO BOARD



Adjustment Location:

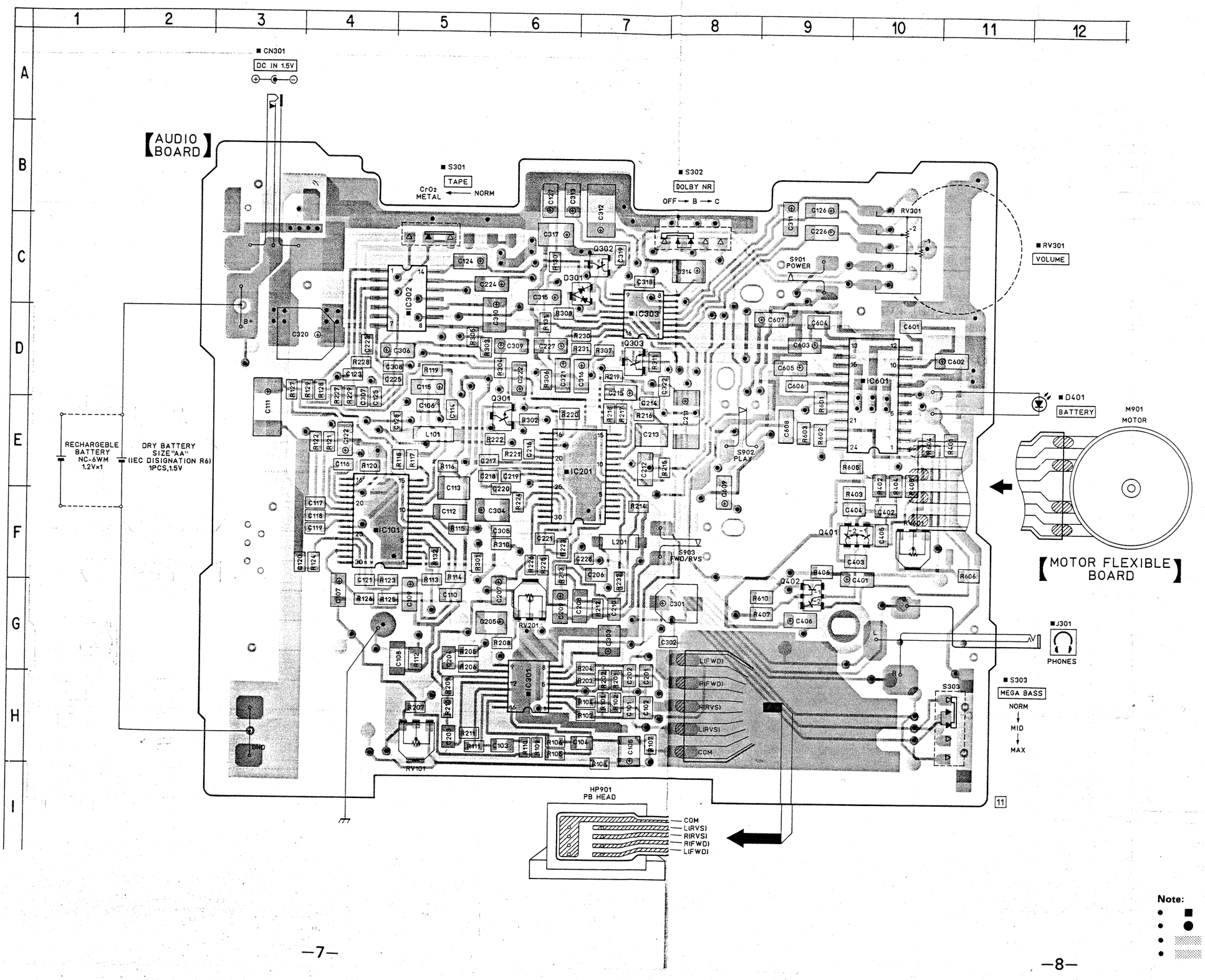
AUDIO BOARD — Conductor side—



MEMO

SECTION 3
DIAGRAMS

3-1. PRINTED WIRING BOARD

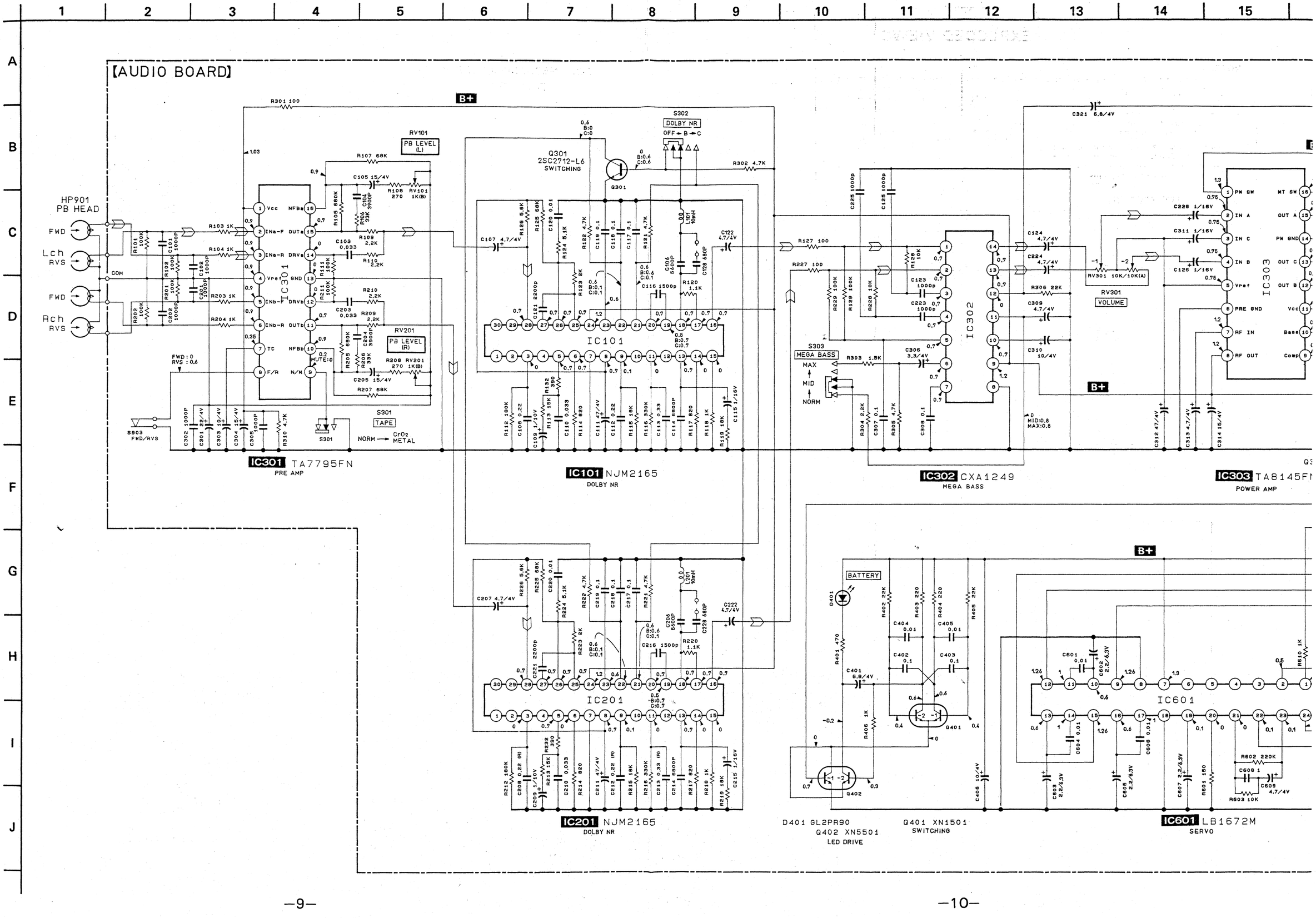


• **Semiconductor Location**

Ref. No.	Location
D301	C-7
D401	D-12
IC101	F-4
IC201	E-7
IC301	H6
IC302	C5
IC303	D7
IC601	D10
Q301	E6
Q302	C7
Q303	D7
Q401	F10
Q402	G9

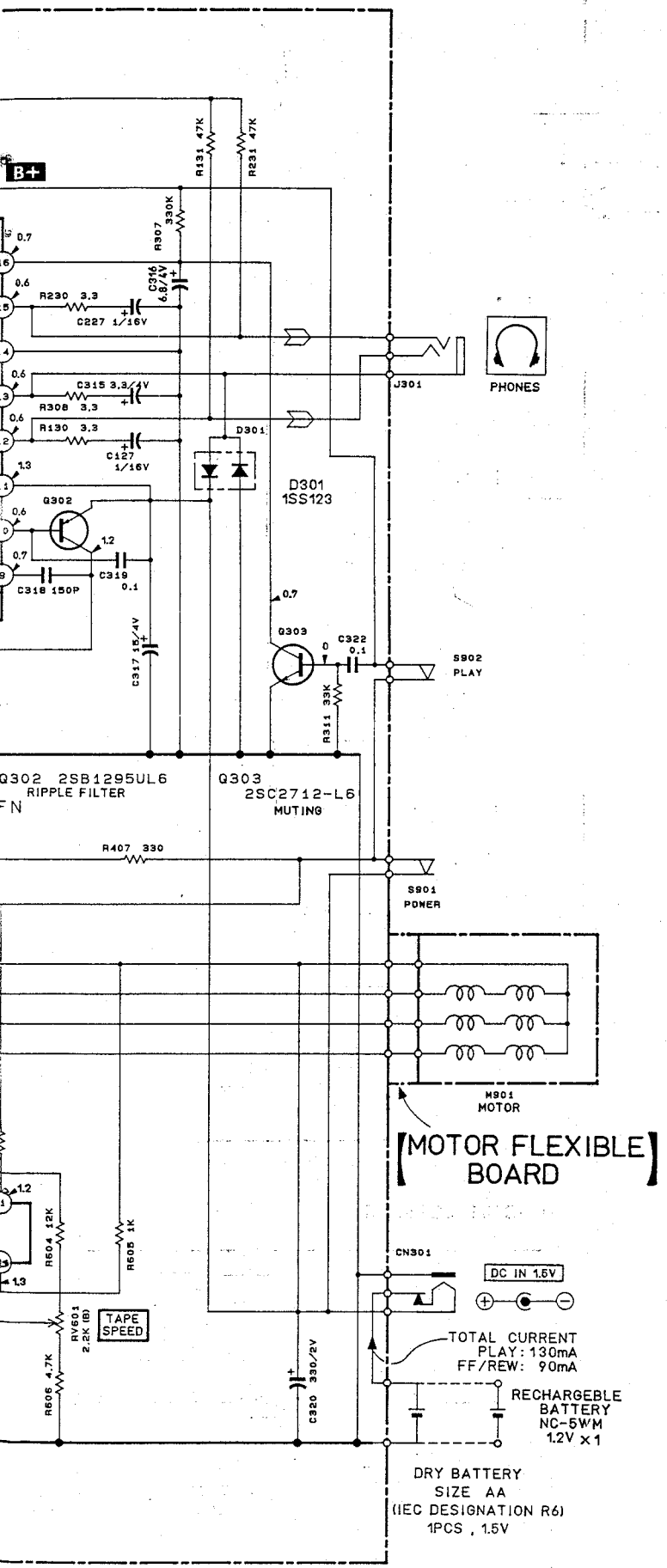
Note:

- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.


【AUDIO BOARD】
B+
HP901
PB HEAD
FWD
Lch
RVS
COM
FWD
Rch
RVS
RV101
PB LEVEL
(L)
RV201
PB LEVEL
(R)
S301
TAPE
NORM → CrO2
METAL
S302
DOLBY NR
OFF → B → C
Q301
2SC2712-L6
SWITCHING
S303
MEGA BASS
MAX
MID
NORM
RV301
VOLUME
S903
FWD/RVS
IC301 TA7795FN
PRE AMP
IC101 NJM2165
DOLBY NR
IC302 CXA1249
MEGA BASS
IC303 TA8145FN
POWER AMP
IC201 NJM2165
DOLBY NR
D401 GL2PR90
Q402 XN5501
LED DRIVE
Q401 XN1501
SWITCHING
IC601 LB1672M
SERVO
BATTERY

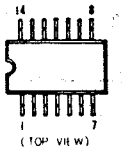
16 17 18 19 20 21 22 23

A B C D E F G H I J

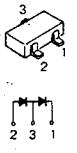


● Semiconductor Lead Layouts

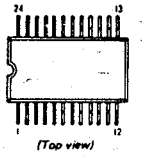
CXA1249M



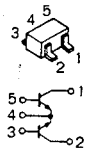
1SS123



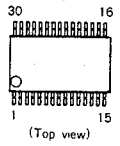
LB1672M



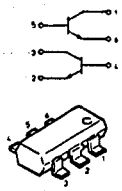
XN1501



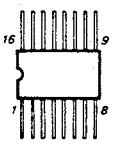
NJM2165V



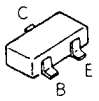
XN5501



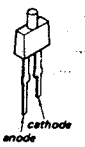
TA7795FN
TA8145FN



2SB1295-UL6
2SC2712G



GL2PR90

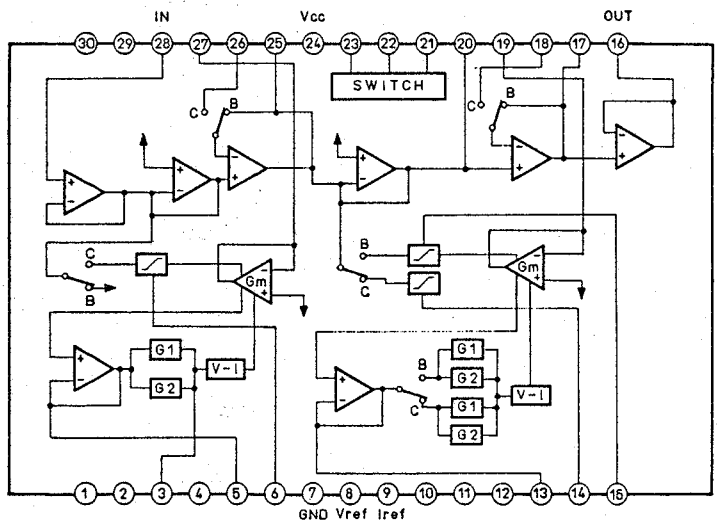


Note:

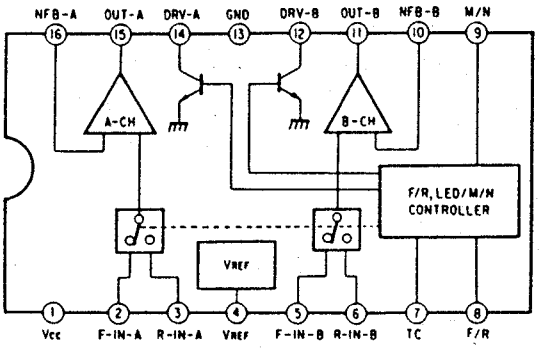
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- B+ : B+ Line
- ▭ : adjustment for repair.
- Total current is measured with no cassette installed.
- Power voltage is dc 1.5V and fed with regurated dc power supply from external power voltage jack.
- Voltage and waveforms are dc with respect to ground under no-signal (in playback mode) conditions.
  no mark: FWD
- Voltages are taken with a VOM(input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ▷ : PB

3-3. IC BLOCK DIAGRAM

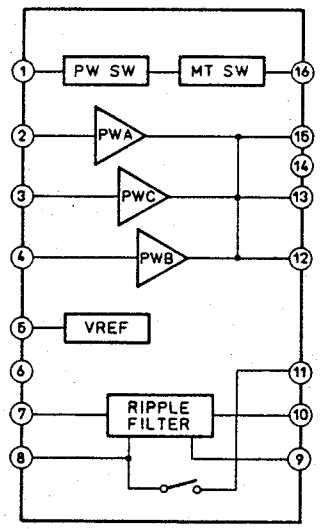
- **IC101, 201 NJM2165V**



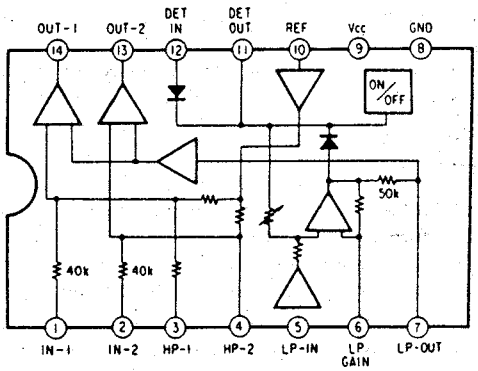
- **IC301 TA7795F**



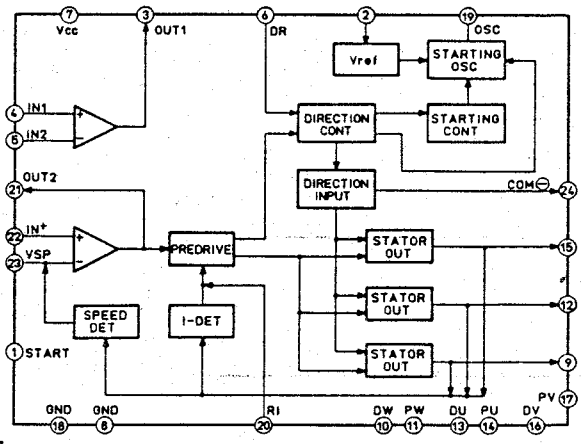
- **IC303 TA8145FN**



- **IC302 CXA1249M**



- **IC601 LB1672M**

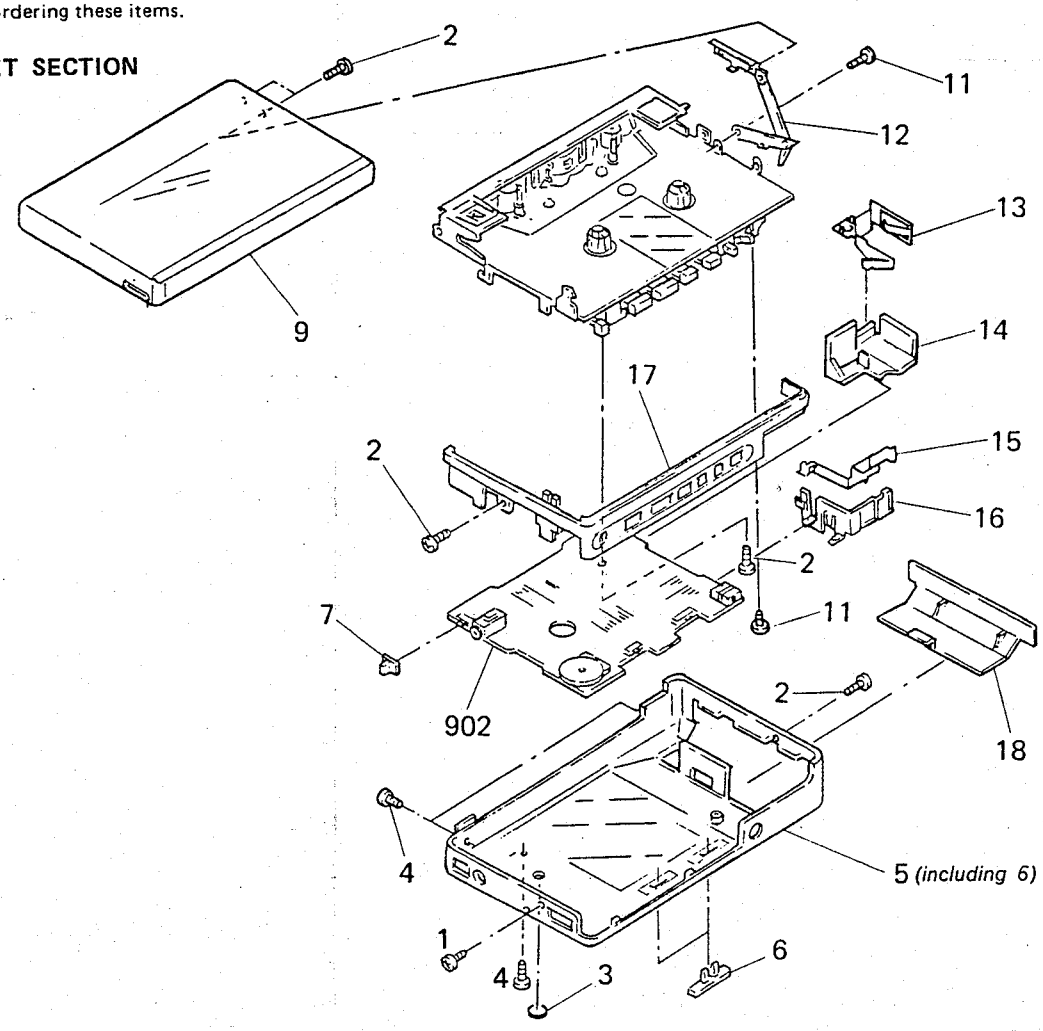


SECTION 4
EXPLODED VIEWS

NOTE:

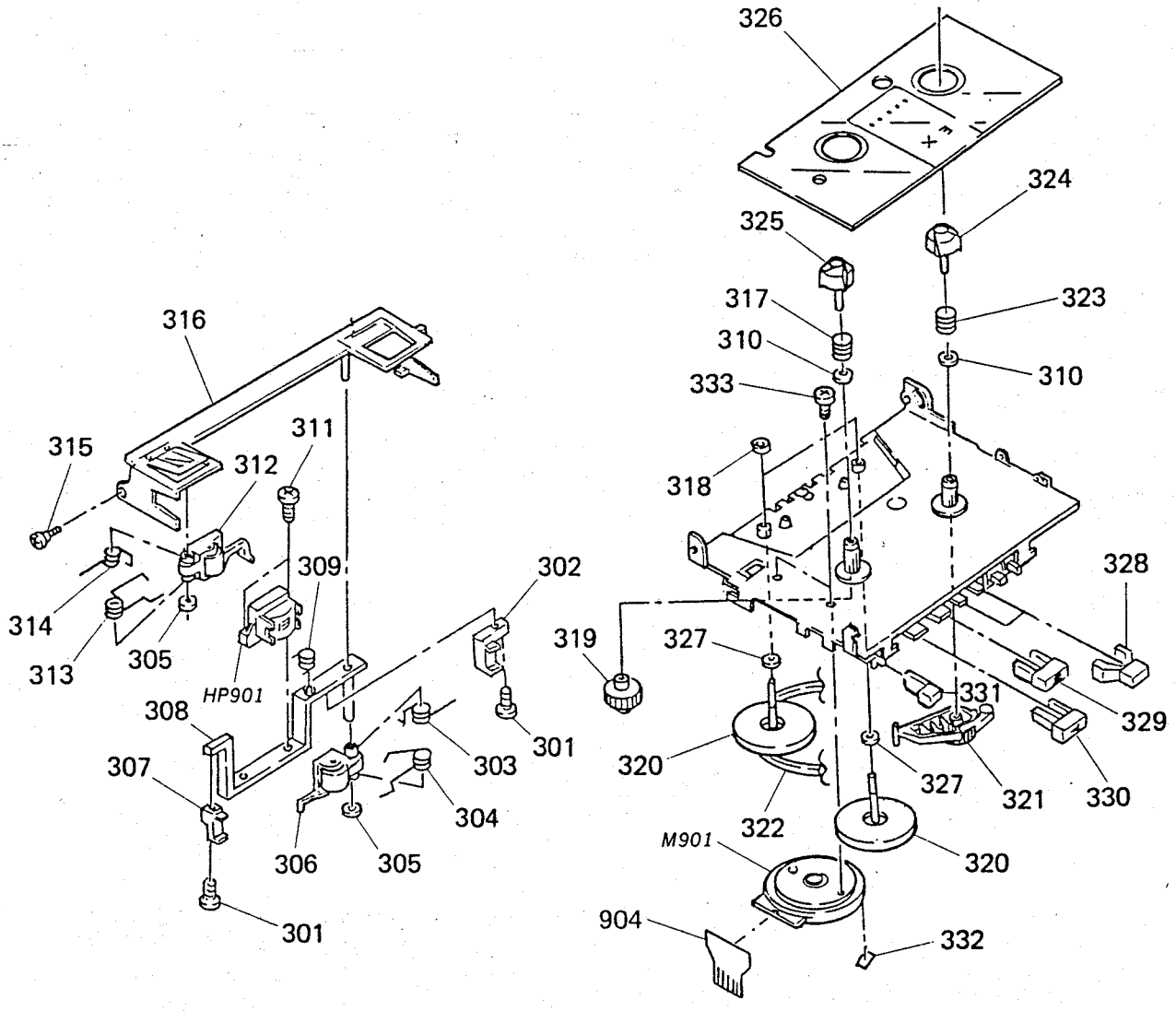
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) ...KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

5-1. CABINET SECTION



No.	Part No.	Description	Remarks
1	3-704-197-61	SCREW (M1.4X4.0), LOCKING	
2	3-704-197-11	SCREW (M1.4X2.0), LOCKING	
3	3-342-380-01	SHEET, SPEED HOLE	
4	3-704-197-31	SCREW (M1.4X3.0), LOCKING	
5	X-3352-025-1	CABINET (REAR) ASSY	
6	3-352-045-01	KNOB (TAPE)	
7	3-348-186-01	KNOB (DBB)	
9	X-3352-019-1	LID (TC-2) ASSY, CASSETTE	
11	3-704-197-01	SCREW (M1.4X1.6), LOCKING	
12	X-3352-013-1	ARM ASSY, CLICK	
13	3-352-048-01	TERMINAL BOARD, MINUS	
14	3-352-050-01	HOLDER (B), TERMINAL	
15	3-352-047-01	TERMINAL BOARD, PLUS	
16	3-352-049-01	HOLDER (A), TERMINAL	
17	3-352-053-01	ORNAMENT, BUTTON	
18	3-352-046-01	LID, BATTERY CASE	
902	A-3070-265-A	MOUNTED PCB, AUDIO	

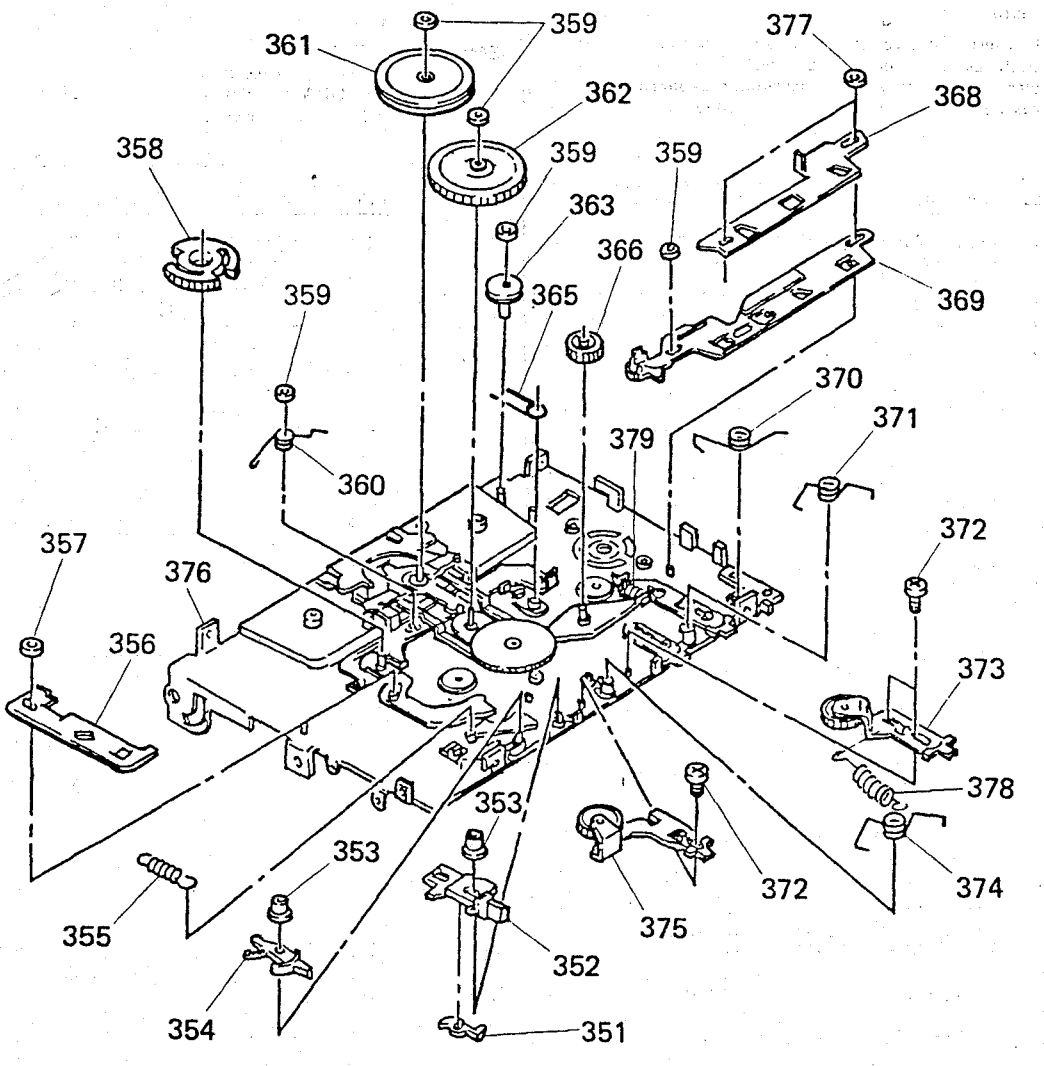
5-2. MECHANISM SECTION (1)
MF-WMA602-01



No.	Part No.	Description	Remarks
301	3-348-998-31	SCREW (M1.4X2.5), TAPPING, PAN	
302	*3-344-693-01	GUIDE (LEFT)	
303	3-341-468-01	SPRING (R)	
304	3-354-420-01	SPRING (PINCH RK), TORSION	
305	3-341-473-01	WASHER (MP)	
306	X-3331-035-1	PINCH LEVER (R) ASSY	
307	*3-344-694-01	GUIDE (RIGHT)	
308	*3-345-725-01	LEVER (AZ), HEAD	
309	3-347-205-01	SPRING (HD LEVER), TORSION	
310	3-348-990-11	WASHER (THRUST)	
311	3-348-998-71	SCREW (M1.4X4.5), TAPPING, PAN	
312	X-3331-036-1	PINCH LEVER (N) ASSY	
313	3-354-421-01	SPRING (PINCH NK), TORSION	
314	3-341-469-01	SPRING (N)	
315	3-352-005-01	SCREW(M1.4X1.6), PRECISION STEP	
316	X-3352-009-1	HOLDER (X) ASSY	
317	3-348-989-01	SPRING, COMPRESSION	
318	3-352-098-01	WASHER, STOPPER	

No.	Part No.	Description	Remarks
319	3-348-151-01	GEAR (TAKE-UP REEL)	
320	X-3352-007-1	WHEEL (X) ASSY, CAPSTAN	
321	X-3348-110-1	LEVER ASSY, PICK UP	
322	3-352-022-01	BELT	
323	3-348-107-01	SPRING, COMPRESSION	
324	3-348-149-01	REEL, SUPPLY	
325	3-348-150-01	REEL, TAKE-UP	
326	3-352-010-01	COVER (X), MD	
327	3-354-407-01	WASHER	
328	3-352-025-01	BUTTON (FR.X)	
329	3-352-024-01	BUTTON (STOP.X)	
330	3-352-023-01	BUTTON (PLAY.X)	
331	3-348-129-01	BUTTON (OPEN)	
332	3-703-929-01	SPACER (P)	
333	3-354-448-01	SCREW (TOOTH)	
904	1-629-873-11	PC BOARD, MOTOR FLEXIBLE	
HP901	1-543-605-11	HEAD, MAGNETIC (PLAYBACK)	
M901	1-541-660-11	MOTOR	

5-3. MECHANISM SECTION (2)
MF-WMA602-01



No.	Part No.	Description	Remarks
351	3-348-101-01	RATCHET	
352	3-348-156-01	LEVER, DIR	
353	3-348-102-01	BUSHING	
354	3-348-105-01	LEVER, MODE SELECTION	
355	3-348-163-01	SPRING, TENSION	
356	*3-352-002-01	LEVER (X), TRIGGER	
357	3-348-953-11	WASHER	
358	3-352-032-01	GEAR (X), CAM	
359	3-348-996-01	WASHER	
360	3-348-172-01	SPRING (S.OFF), TORSION	
361	3-352-007-01	PULLEY (MIDWAY.X)	
362	X-3352-006-1	CLUTCH (X) ASSY	
363	3-352-008-01	PULLEY (REVERSE.X)	
365	3-348-159-01	SPRING (NR), TORSION	
366	3-352-021-01	GEAR (N.X)	
368	*3-352-028-01	LEVER (X), SW	
369	X-3348-102-1	LEVER ASSY, LOCK	
370	3-348-162-01	SPRING (LOCK), TORSION	
371	3-348-103-01	SPRING (PLAY), TORSION	
372	3-348-160-01	SCREW (M1.4X1.3),PRECISION PAN	
373	X-3352-004-1	LEVER (X) ASSY, FF	
374	3-348-168-01	SPRING (FR), TORSION	
375	X-3352-005-1	LEVER (X) ASSY, REW	
376	X-3352-011-1	CHASSIS (X) COMPLETE ASSY	
377	3-348-953-21	WASHER	
378	3-352-026-01	SPRING	
379	3-348-104-01	SPRING, TENSION	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

Ref.No.	Part No.	Description		
902	A-3070-265-A	MOUNTED PCB, AUDIO		
904	1-629-873-11	PC BOARD, MOTOR FLEXIBLE		
C101	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C102	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C103	1-163-989-11	CERAMIC CHIP 0.033MF	5%	25V
C104	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V
C105	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C106	1-163-018-00	CERAMIC CHIP 0.0056MF	5%	50V
C107	1-135-183-11	TANTAL. CHIP 4.7MF	20%	4V
C108	1-164-330-95	CERAMIC CHIP 0.22MF	5%	16V
C109	1-135-208-41	TANTAL. CHIP 1MF		10V
C110	1-163-989-11	CERAMIC CHIP 0.033MF	5%	25V
C111	1-135-163-21	TANTAL. CHIP 47MF	20%	4V
C112	1-164-330-95	CERAMIC CHIP 0.22MF	5%	16V
C113	1-164-327-95	CERAMIC CHIP 0.33MF	5%	16V
C114	1-162-969-11	CERAMIC CHIP 0.0068MF	10%	25V
C115	1-135-091-00	TANTAL. CHIP 1MF	10%	16V
C116	1-162-965-11	CERAMIC CHIP 0.0015MF	10%	50V
C117	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C118	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C119	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C120	1-162-970-11	CERAMIC CHIP 0.01MF	5%	25V
C121	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V
C122	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C123	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C124	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C125	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C126	1-135-091-00	TANTAL. CHIP 1MF	10%	16V
C127	1-135-091-00	TANTAL. CHIP 1MF	10%	16V
C128	1-162-963-11	CERAMIC CHIP 680PF	10%	50V
C201	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C202	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C203	1-163-989-11	CERAMIC CHIP 0.033MF	5%	25V
C204	1-163-016-00	CERAMIC CHIP 0.0039MF	10%	50V
C205	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C206	1-163-018-00	CERAMIC CHIP 0.0056MF	5%	50V
C207	1-135-183-11	TANTAL. CHIP 4.7MF	20%	4V
C208	1-164-330-95	CERAMIC CHIP 0.22MF	5%	16V
C209	1-135-208-41	TANTAL. CHIP 1MF		10V
C210	1-163-989-11	CERAMIC CHIP 0.033MF	5%	25V
C211	1-135-163-21	TANTAL. CHIP 47MF	20%	4V
C212	1-164-330-95	CERAMIC CHIP 0.22MF	5%	16V
C213	1-164-327-95	CERAMIC CHIP 0.33MF	5%	16V
C214	1-162-969-11	CERAMIC CHIP 0.0068MF	10%	25V

Ref.No.	Part No.	Description		
C215	1-135-091-00	TANTAL. CHIP 1MF	10%	16V
C216	1-162-965-11	CERAMIC CHIP 0.0015MF	10%	50V
C217	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C218	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C219	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C220	1-162-970-11	CERAMIC CHIP 0.01MF	5%	25V
C221	1-162-966-11	CERAMIC CHIP 0.0022MF	10%	50V
C222	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C223	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C224	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C225	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C226	1-135-091-00	TANTAL. CHIP 1MF	10%	16V
C227	1-135-091-00	TANTAL. CHIP 1MF	10%	16V
C228	1-162-963-11	CERAMIC CHIP 680PF	10%	50V
C301	1-126-590-11	ELECT CHIP 22MF	20%	4V
C302	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C303	1-135-185-11	TANTAL. CHIP 10MF	20%	4V
C304	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C305	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C306	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C307	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C308	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C309	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C310	1-135-157-21	TANTAL. CHIP 10MF	20%	4V
C311	1-135-091-00	TANTAL. CHIP 1MF	10%	16V
C312	1-135-163-21	TANTAL. CHIP 47MF	20%	4V
C313	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
C314	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C315	1-135-103-00	TANTAL. CHIP 3.3MF	10%	4V
C316	1-135-170-21	TANTAL. CHIP 6.8MF	20%	4V
C317	1-135-158-21	TANTAL. CHIP 15MF	20%	4V
C318	1-162-955-11	CERAMIC CHIP 150PF	5%	50V
C319	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C320	1-126-608-11	ELECT 330MF	20%	2V
C321	1-135-170-21	TANTAL. CHIP 6.8MF	20%	4V
C322	1-164-156-11	CERAMIC CHIP 0.1MF		25V
C401	1-135-170-21	TANTAL. CHIP 6.8MF	20%	4V
C402	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C403	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C404	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C405	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C406	1-135-201-11	TANTAL. CHIP 10MF	20%	4V
C601	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C602	1-135-149-21	TANTAL. CHIP 2.2MF	20%	6.3V
C603	1-135-149-21	TANTAL. CHIP 2.2MF	20%	6.3V

Ref.No.	Part No.	Description		
C604	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C605	1-135-149-21	TANTAL. CHIP 2.2MF	20%	6.3V
C606	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V
C607	1-135-149-21	TANTAL. CHIP 2.2MF	20%	6.3V
C608	1-162-638-11	CERAMIC CHIP 1MF		16V
C609	1-135-151-21	TANTAL. CHIP 4.7MF	20%	4V
CN301	1-568-255-11	JACK, EXTERNAL POWER 1P (DC IN 1.5V)		
D301	8-719-800-76	DIODE 1SS226		
D401	8-719-976-16	DIODE GL2PR90 (BATTERY)		
HP901	1-543-605-11	HEAD, MAGNETIC (PLAYBACK)		
IC101	8-759-711-11	IC NJM2165V		
IC201	8-759-711-11	IC NJM2165V		
IC301	8-759-230-91	IC TA7795FN		
IC302	8-759-805-09	IC CXA1249M		
IC303	8-759-231-13	IC TA8145FN		
IC601	8-759-821-20	IC LB1672M		
J301	1-568-254-11	JACK 1P (PHONES)		
L101	1-424-268-11	COIL (FILTER) 10mH		
L201	1-424-268-11	COIL (FILTER) 10mH		
M901	1-541-660-11	MOTOR		
Q301	8-729-271-22	TRANSISTOR 2SC2712-G		
Q302	8-729-807-87	TRANSISTOR 2SB1295-UL6		
Q303	8-729-271-22	TRANSISTOR 2SC2712-G		
Q401	8-729-421-23	TRANSISTOR XN1216		
Q402	8-729-402-75	TRANSISTOR XN5501		
R101	1-216-845-11	METAL GLAZE 100K	5%	1/16W
R102	1-216-845-11	METAL GLAZE 100K	5%	1/16W
R103	1-216-821-11	METAL GLAZE 1K	5%	1/16W
R104	1-216-821-11	METAL GLAZE 1K	5%	1/16W
R105	1-216-855-11	METAL GLAZE 680K	5%	1/16W
R106	1-216-839-11	METAL GLAZE 33K	5%	1/16W
R107	1-216-843-11	METAL GLAZE 68K	5%	1/16W
R108	1-216-814-11	METAL GLAZE 270	5%	1/16W
R109	1-216-825-11	METAL GLAZE 2.2K	5%	1/16W
R110	1-216-825-11	METAL GLAZE 2.2K	5%	1/16W
R111	1-216-845-11	METAL GLAZE 100K	5%	1/16W
R112	1-216-103-00	METAL GLAZE 180K	5%	1/10W
R113	1-216-835-11	METAL GLAZE 15K	5%	1/16W
R114	1-216-820-11	METAL GLAZE 820	5%	1/16W
R115	1-216-836-11	METAL GLAZE 18K	5%	1/16W
R116	1-216-851-11	METAL GLAZE 330K	5%	1/16W
R117	1-216-820-11	METAL GLAZE 820	5%	1/16W
R118	1-216-821-11	METAL GLAZE 1K	5%	1/16W
R119	1-216-836-11	METAL GLAZE 18K	5%	1/16W
R120	1-218-270-11	METAL GLAZE 1.1K	5%	1/16W
R121	1-216-829-11	METAL GLAZE 4.7K	5%	1/16W
R122	1-216-829-11	METAL GLAZE 4.7K	5%	1/16W
R123	1-218-271-11	METAL GLAZE 2K	5%	1/16W
R124	1-218-272-11	METAL GLAZE 5.1K	5%	1/16W
R125	1-216-843-11	METAL GLAZE 68K	5%	1/16W
R126	1-216-830-11	METAL GLAZE 5.6K	5%	1/16W
R127	1-216-809-11	METAL GLAZE 100	5%	1/16W
R128	1-216-833-11	METAL GLAZE 10K	5%	1/16W
R129	1-216-845-11	METAL GLAZE 100K	5%	1/16W
R130	1-216-791-11	METAL GLAZE 3.3	5%	1/16W
R131	1-216-841-11	METAL GLAZE 47K	5%	1/16W
R132	1-216-816-11	METAL GLAZE 390	5%	1/16W
R201	1-216-845-11	METAL GLAZE 100K	5%	1/16W
R202	1-216-845-11	METAL GLAZE 100K	5%	1/16W
R203	1-216-821-11	METAL GLAZE 1K	5%	1/16W
R204	1-216-821-11	METAL GLAZE 1K	5%	1/16W
R205	1-216-855-11	METAL GLAZE 680K	5%	1/16W
R206	1-216-839-11	METAL GLAZE 33K	5%	1/16W
R207	1-216-843-11	METAL GLAZE 68K	5%	1/16W
R208	1-216-814-11	METAL GLAZE 270	5%	1/16W
R209	1-216-825-11	METAL GLAZE 2.2K	5%	1/16W
R210	1-216-825-11	METAL GLAZE 2.2K	5%	1/16W
R211	1-216-845-11	METAL GLAZE 100K	5%	1/16W
R212	1-216-848-11	METAL GLAZE 180K	5%	1/16W
R213	1-216-835-11	METAL GLAZE 15K	5%	1/16W
R214	1-216-820-11	METAL GLAZE 820	5%	1/16W
R215	1-216-836-11	METAL GLAZE 18K	5%	1/16W
R216	1-216-851-11	METAL GLAZE 330K	5%	1/16W
R217	1-216-820-11	METAL GLAZE 820	5%	1/16W
R218	1-216-821-11	METAL GLAZE 1K	5%	1/16W
R219	1-216-836-11	METAL GLAZE 18K	5%	1/16W
R220	1-218-270-11	METAL GLAZE 1.1K	5%	1/16W
R221	1-216-829-11	METAL GLAZE 4.7K	5%	1/16W
R222	1-216-829-11	METAL GLAZE 4.7K	5%	1/16W
R223	1-218-271-11	METAL GLAZE 2K	5%	1/16W
R224	1-218-272-11	METAL GLAZE 5.1K	5%	1/16W
R225	1-216-843-11	METAL GLAZE 68K	5%	1/16W
R226	1-216-830-11	METAL GLAZE 5.6K	5%	1/16W
R227	1-216-809-11	METAL GLAZE 100	5%	1/16W
R228	1-216-833-11	METAL GLAZE 10K	5%	1/16W
R229	1-216-845-11	METAL GLAZE 100K	5%	1/16W
R230	1-216-791-11	METAL GLAZE 3.3	5%	1/16W
R231	1-216-841-11	METAL GLAZE 47K	5%	1/16W

Ref.No.	Part No.	Description			
R232	1-216-816-11	METAL GLAZE	390	5%	1/16W
R301	1-216-809-11	METAL GLAZE	100	5%	1/16W
R302	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R303	1-216-823-11	METAL GLAZE	1.5K	5%	1/16W
R304	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R305	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R306	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R307	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R308	1-216-791-11	METAL GLAZE	3.3	5%	1/16W
R310	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R311	1-216-839-11	METAL GLAZE	33K	5%	1/16W
R401	1-216-041-00	METAL GLAZE	470	5%	1/10W
R402	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R403	1-216-033-00	METAL GLAZE	220	5%	1/10W
R404	1-216-033-00	METAL GLAZE	220	5%	1/10W
R405	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R406	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R407	1-216-037-00	METAL GLAZE	330	5%	1/10W
R601	1-216-029-00	METAL GLAZE	150	5%	1/10W
R602	1-216-105-00	METAL GLAZE	220K	5%	1/10W
R603	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R604	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R605	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R606	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R610	1-216-049-00	METAL GLAZE	1K	5%	1/10W
RV101	1-238-201-11	RES, ADJ, METAL GLAZE 1K (PB LEVEL L)			
RV201	1-238-201-11	RES, ADJ, METAL GLAZE 1K (PB LEVEL R)			
RV301	1-238-488-11	RES, VAR, CARBON 10K/10K (VOLUME)			
RV601	1-238-202-11	RES, ADJ, METAL GLAZE 2.2K (SPEED)			
S301	1-571-277-11	SWITCH, SLIDE (TAPE)			
S302	1-571-506-11	SWITCH, SLIDE (DOLBY NR)			
S303	1-571-506-11	SWITCH, SLIDE (MEGA BASS)			
S901	1-571-585-11	SWITCH, PUSH (1 KEY)(POWER)			
S902	1-571-585-11	SWITCH, PUSH (1 KEY)(PLAY)			
S903	1-571-585-11	SWITCH, PUSH (1 KEY)(FWD/RVS)			

ACCESSORY & PACKING MATERIAL

*3-352-078-01	CUSHION (UPPER)
*3-352-079-01	INDIVIDUAL CARTON
*3-352-092-01	CUSHION (LOWER)
3-750-105-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE)
3-750-105-41	MANUAL, INSTRUCTION (GERMANS, DUTCH, SWEDISH, ITALIAN)
3-750-105-41	MANUAL, INSTRUCTION
3-325-290-31	WASHER, STOPPER
8-952-260-92	MDR-W10L/1 SET
8-952-260-92	HEADPHONE MDR-W10L//K SET
X-3352-016-1	CLIP ASSY, BELT

9-953-867-11

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Audio Group

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